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M protein - protein search, using sw model

run on: November 17, 2003, 16:04:42 ; Search time 5.89474 Seconds
(without alignments)
143.555 Million cell updates/sec

title: US-09-910-009A-211

effect score: 121

sequence: 1 XNCGGCSKXCRDHARCC 20

scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 328717 seqs, 42310858 residues

total number of hits satisfying chosen parameters: 328717

minimum DB seq length: 0

maximum DB seq length: 2000000000

post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

1: /cgn2_6/prodata/1/aaa/5A_COMB.pep:*

2: /cgn2_6/prodata/1/aaa/5B_COMB.pep:*

3: /cgn2_6/prodata/1/aaa/6A_COMB.pep:*

4: /cgn2_6/prodata/1/aaa/6B_COMB.pep:*

5: /cgn2_6/prodata/1/aaa/PTUS_COMB.pep:*

6: /cgn2_6/prodata/1/aaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	58	47.9	1417	4	US-08-900-230-3
2	57	47.1	2211	4	US-09-738-884-1
3	54	44.6	58	1	US-08-279-058B-23
4	54	44.6	58	4	US-08-828-323-23
5	54	44.6	232	4	US-09-252-991A-23648
6	53	43.8	40	4	US-09-003-198A-14
7	53	43.8	67	4	US-09-003-198A-16
8	52.5	43.4	1345	2	US-08-977-767-3
9	52.5	43.4	1400	4	US-08-630-918A-37
10	50	41.3	2088	4	US-09-548-372D-13
11	50	41.3	2088	4	US-09-548-367D-13
12	50	41.3	2088	4	US-09-551-853D-13
13	49.5	40.9	54	2	US-08-691-814B-42
14	49.5	40.9	112	4	US-09-252-991A-23976
15	48.5	40.1	22	1	US-08-599-556-1
16	48.5	40.1	22	5	PCT-US96-05262-2
17	48.5	40.1	27	1	US-08-599-556-7
18	48.5	40.1	27	5	PCT-US96-05262-12
19	48.5	40.1	359	3	US-08-586-165-4
20	48	39.7	170	2	US-08-460-529B-9
21	48	39.7	554	4	US-09-252-991A-28232
22	47.5	39.3	197	4	US-09-252-991A-30359
23	47	38.8	45	4	US-08-900-230-46
24	47	38.8	45	4	US-08-900-230-53
25	47	38.8	46	4	US-08-900-230-40
26	47	38.8	199	4	US-09-252-991A-20230
27	47	38.8	280	4	US-09-252-991A-20783

28 47 38.8 486 4 US-09-252-991A-30359 Sequence 30359, A
29 47 38.8 908 4 US-08-714-741-44 Sequence 44, Appl
30 47 38.8 1833 3 US-08-479-722B-2 Sequence 2, Appl
31 47 38.8 1833 5 PCT-US95-02251-18 Sequence 18, Appl
32 46.5 38.4 212 4 US-09-252-991A-27887 Sequence 27887, A
33 46.5 38.4 593 1 US-07-668-648-4 Sequence 4, Appl
34 46.5 38.4 593 2 US-08-429-998-4 Sequence 4, Appl
35 46.5 38.4 593 2 US-08-431-333-4 Sequence 4, Appl
36 46.5 38.4 593 4 US-08-991-882-17 Sequence 17, Appl
37 46.5 38.4 593 5 PCT-US91-02321-4 Sequence 4, Appl
38 46.5 38.4 736 4 US-09-252-991A-32256 Sequence 32256, A
39 46.5 38.4 801 1 US-07-906-349A-6 Sequence 6, Appl
40 46 38.0 25 1 US-08-092-215-4 Sequence 4, Appl
41 46 38.0 29 1 US-08-092-215-13 Sequence 13, Appl
42 46 38.0 109 2 US-08-527-044-2 Sequence 2, Appl
43 46 38.0 109 3 US-09-013-780-2 Sequence 2, Appl
44 46 38.0 109 4 US-09-252-991A-22787 Sequence 22787, A
45 46 38.0 120 3 US-08-508-761B-22 Sequence 22, Appl

ALIGNMENTS

RESULT 1
US-08-900-230-3
; Sequence 3, Application US/08900230
; Patent No. 6329197
; GENERAL INFORMATION:
; APPLICANT: Bard, Jonathan A.
; TITLE OF INVENTION: DNA ENCODING GALANN GALLR3 RECEPTORS AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 11036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/900.230
; FILING DATE: 23-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-391-0525
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1417 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE:
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-900-230-3

Query Match 47.9%; Score 58; DB 4; Length 1417;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 9; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 3 CCNGGCSKXCRDHARCC 20

DB 540 CCTGGCCCTGGGCACCC 557

RESULT 2
US-09-738-884-1
; Sequence 1, Application US/09738884
; Patent No. 6391606
; GENERAL INFORMATION:
; APPLICANT: GUEGLER, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN PHOSPHOLIPASE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PHOSPHOLIPASE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL000849
; CURRENT APPLICATION NUMBER: US/09/738,884
; CURRENT FILING DATE: 2000-12-18
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2211
; TYPE: PRT
; ORGANISM: Human
; US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;
Best Local Similarity 50.0%; Pred. No. 67;
Matches 9; Conservative 1; Mismatches 8; Indels 0; Gaps 0;
47 CCGGCTCCGAGATCC 64
3 CCGGCSKXCRDHARCC 20
|||||:|

SULT 3
-08-279-058B-23
; Sequence 23, Application US/08279058B
; Patent No. 5668004
; GENERAL INFORMATION:
; APPLICANT: Michael E. O'Donnell
; TITLE OF INVENTION: DNA POLYMERASE III
; TITLE OF INVENTION: HOLOENZYME
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skycop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/279,058B
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CRF D-1056CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 58 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-279-058B-23
Query Match 44.6%; Score 54; DB 1; Length 58;
Best Local Similarity 47.1%; Pred. No. 6.9;
Matches 9; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

Matches 8; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
QY 4 CNGGCSKXCRDHARCC 20
| | | | : | | |
DB 38 CTGGCTACTCGTGAACC 54
| | | | : | | |

RESULT 4
US-08-828-323-23
; Sequence 23, Application US/08828323A
; Patent No. 6413753
; GENERAL INFORMATION:
; APPLICANT: O'Donnell, Michael
; TITLE OF INVENTION: DNA POLYMERASE III HOLOENZYME
; FILE REFERENCE: 19603/10214
; CURRENT APPLICATION NUMBER: US/08/828,323A
; CURRENT FILING DATE: 1997-03-28
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 23
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Escherichia coli
; US-08-828-323-23

Query Match 44.6%; Score 54; DB 4; Length 58;
Best Local Similarity 47.1%; Pred. No. 6.9;
Matches 8; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
QY 4 CNGGCSKXCRDHARCC 20
| | | | : | | |
DB 38 CTGGCTACTCGTGAACC 54
| | | | : | | |

RESULT 5
US-09-252-991A-23648
; Sequence 23648, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23648
; LENGTH: 232
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-23648

Query Match 44.6%; Score 54; DB 4; Length 232;
Best Local Similarity 47.1%; Pred. No. 22;
Matches 8; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY 4 CNGGCSKXCRDHARCC 20
| | | | : | | |
DB 63 CTGTCQSSCSRSRGRCC 79
| | | | : | | |

RESULT 6
US-09-003-198A-14
; Sequence 14, Application US/09003198A
; Patent No. 6316407
; GENERAL INFORMATION:
; APPLICANT: Liang, Jihong
; APPLICANT: Shah, Dilip Maganlal
; APPLICANT: Wu, Yonnice S.

APPLICANT: Rosenberger, Cindy A.
APPLICANT: Hakimi, Salim
TITLE OF INVENTION: Antifungal Polypeptide and Methods for
TITLE OF INVENTION: Controlling Plant Pathogenic Fungi
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/003,198A
FILING DATE: 07-JAN-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Patterson, Melinda L.
REGISTRATION NUMBER: 33,062
REFERENCE/DOCKET NUMBER: MOBT:193
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 787-1400
TELEFAX: (713) 787-1440
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-003-198A-14
09-003-198A-14
Query Match 43.8%; Score 53; DB 4; Length 40;
Best Local Similarity 40.7%; Pred. No. 6.5;
Matches 11; Conservative 0; Mismatches 6; Indels 10; Gaps 1;
4 CNGGCS-----SKXCRDHARCC 20
14 CFGGCDPHCKTKEHLLSGRCDDFRCC 40
ULT 7
09-003-198A-16
Sequence 16, Application US/09003198A
Patent No. 6316407
GENERAL INFORMATION:
APPLICANT: Liang, Jihong
APPLICANT: Shah, Dilip Maganlal
APPLICANT: Wu, Yennie S.
APPLICANT: Rosenberger, Cindy A.
APPLICANT: Hakimi, Salim
TITLE OF INVENTION: Antifungal Polypeptide and Methods for
TITLE OF INVENTION: Controlling Plant Pathogenic Fungi
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/003,198A
FILING DATE: 07-JAN-1998

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Patterson, Melinda L.
REGISTRATION NUMBER: 33,062
REFERENCE/DOCKET NUMBER: MOBT:193
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 787-1400
TELEFAX: (713) 787-1440
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-09-003-198A-16
Query Match 43.8%; Score 53; DB 4; Length 67;
Best Local Similarity 40.7%; Pred. No. 10;
Matches 11; Conservative 0; Mismatches 6; Indels 10; Gaps 1;
QY 4 CNGGCS-----SKXCRDHARCC 20
DB 41 CFGGCDPHCKTKEHLLSGRCDDFRCC 67
RESULT 8
US-08-977-767-3
Sequence 3, Application US/08977767
Patent No. 5972684
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Yue, Henry
APPLICANT: Greenwald, Sara
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: CARBONIC ANHYDRASE VIII
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/977,767
FILING DATE: Herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0423 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0955
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1345 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 1532042
US-08-977-767-3

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Query Match 43.4%; Score 52.5; DB 2; Length 1345;
est Local Similarity 50.0%; Pred. No. 1.4e+02;
atches 9; Conservative 1; Mismatches 7; Indels 1; Gaps 1;

3 CCGGGCCKKCRDHARCC 20
|||||
774 CCGGCCATTC-TCAGCC 790

ULT 9
08-630-915A-37
sequence 37, Application US/08630915A
atent No. 6309820
GENERAL INFORMATION:
APPLICANT: SPARKS, Andrew B.
APPLICANT: HOFFMAN, No. 6309820h
APPLICANT: KAY, Brian K.
APPLICANT: FOWLES, Dana M.
APPLICANT: MCCONNELL, Stephen J.
TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL
TITLE OF INVENTION: DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND
TITLE OF INVENTION: USING SAME
NUMBER OF SEQUENCES: 227
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/630,915A
FILING DATE: 03-APR-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Misrock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 1101-174
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-3090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 1400 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
08-630-915A-37

Query Match 43.4%; Score 52.5; DB 4; Length 1400;
est Local Similarity 50.0%; Pred. No. 1.4e+02;
Matches 9; Conservative 1; Mismatches 5; Indels 3; Gaps 1;

3 CCGGGCCKKCRDHARCC 20
|||||
190 CCGGGCA--CTGTACCC 204

ULT 10
08-548-372D-13
Sequence 13, Application US/09548372D
Patent No. 6420534
GENERAL INFORMATION:
APPLICANT: GURNEY ET AL.
TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USES

; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 29915/6280I
; CURRENT APPLICATION NUMBER: US/09/548,372D
; CURRENT FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: US 60/155,493
; PRIOR FILING DATE: 1999-09-23
; PRIOR APPLICATION NUMBER: US 09/404,133
; PRIOR FILING DATE: 1999-09-23
; PRIOR APPLICATION NUMBER: PCT/US99/20881
; PRIOR FILING DATE: 1999-09-23
; PRIOR APPLICATION NUMBER: US 60/101,594
; PRIOR FILING DATE: 1998-09-24
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 13
; LENGTH: 2088
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-548-372D-13

Query Match 41.3%; Score 50; DB 4; Length 2088;
Best Local Similarity 44.4%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 3 CCGGGCCKKCRDHARCC 20
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DB 1617 CCGGACGATCTCCAGCC 1634

RESULT 11
US-09-548-367D-13
Sequence 13, Application US/09548367D
Patent No. 6440698
GENERAL INFORMATION:
APPLICANT: GURNEY ET AL.
TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USES
FILE REFERENCE: 29915/6280H
CURRENT APPLICATION NUMBER: US/09/548,367D
CURRENT FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: US 60/155,493
PRIOR FILING DATE: 1999-09-23
PRIOR APPLICATION NUMBER: US 09/404,133
PRIOR FILING DATE: 1999-09-23
PRIOR APPLICATION NUMBER: PCT/US99/20881
PRIOR FILING DATE: 1999-09-23
PRIOR APPLICATION NUMBER: US 60/101,594
PRIOR FILING DATE: 1998-09-24
NUMBER OF SEQ ID NOS: 73
SOFTWARE: Patent in version 3.1
SEQ ID NO 13
LENGTH: 2088
TYPE: PRT
ORGANISM: Homo sapiens
US-09-548-367D-13

Query Match 41.3%; Score 50; DB 4; Length 2088;
Best Local Similarity 44.4%; Pred. No. 3.8e+02;
Matches 8; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 3 CCGGGCCKKCRDHARCC 20
|||||
DB 1617 CCGGACGATCTCCAGCC 1634

RESULT 12
US-09-551-853D-13
Sequence 13, Application US/09551853D
Patent No. 6500667
GENERAL INFORMATION:
APPLICANT: GURNEY ET AL.
TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USES
; TITLE OF INVENTION: THEREOF
```

FILE REFERENCE: 29915/6280L
CURRENT APPLICATION NUMBER: US/09/551.853D
CURRENT FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 60/155,493
PRIOR FILING DATE: 1999-09-23
PRIOR APPLICATION NUMBER: US 09/404,133
PRIOR FILING DATE: 1999-09-23
PRIOR APPLICATION NUMBER: PCT/US99/20881
PRIOR FILING DATE: 1999-09-23
PRIOR APPLICATION NUMBER: US 60/101,594
PRIOR FILING DATE: 1998-09-24
NUMBER OF SEQ ID NOS: 73
SOFTWARE: PatentIn version 3.1
SEQ ID NO 13
LENGTH: 2088
TYPE: PRT
ORGANISM: Homo sapiens
-09-551-853D-13

Query Match 41.3%; Score 50; DB 4; Length 2088;
Best Local Similarity 44.4%; Pred. No. 3.Be+02;
Matches 8; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

3 CCGGCGSSKXCRDHARCC 20
||| ||| ||| ||| |||
1617 CCTGGAGCATCTCCAGCC 1634

SULT 13
08-691-814B-42
Sequence 42 Application US/08691814B
Patent No. 5981218
GENERAL INFORMATION:
APPLICANT: Rio, Marie-Christine
APPLICANT: Tomasetto, Catherine
APPLICANT: Basset, Paul
APPLICANT: Byrne, Jennifer
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Useful
TITLE OF INVENTION: as Leukemia Markers and in Breast Cancer Prognosis
NUMBER OF SEQUENCES: 124
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Ave, NW, Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/691,814B
FILING DATE: 31-JUL-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/002,183
FILING DATE: 09-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: Steffe, Eric K.
REGISTRATION NUMBER: 36,698
REFERENCE/DOCKET NUMBER: 1383.0090001
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2543
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 54 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide

US-08-691-814B-42
Query Match 40.9%; Score 49.5; DB 2; Length 54;
Best Local Similarity 50.0%; Pred. No. 20;
Matches 9; Conservative 1; Mismatches 7; Indels 1; Gaps 1;

QY 3 CCGGCGSSKXCRDHARCC 20
||| ||| ||| ||| |||
DB 25 CCHGGCISPSIA-HGRLC 41

RESULT 14
US-09-252-991A-29976
; Sequence 29976, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29976
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29976

Query Match 40.9%; Score 49.5; DB 4; Length 112;
Best Local Similarity 47.4%; Pred. No. 37;
Matches 9; Conservative 2; Mismatches 3; Indels 5; Gaps 2;

QY 2 NCNGCGSSKXCRDHARCC 20
||| ||| ||| ||| |||
DB 94 NCC---CCATCCR--VRCC 107

RESULT 15
US-08-599-556-1
; Sequence 1, Application US/08599556
; Patent No. 5670622
; GENERAL INFORMATION:
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Yoshikami, Doju
; APPLICANT: Marsh, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hillvard, David R.
; APPLICANT: Olivera, Baldomero M.
; TITLE OF INVENTION: Conotoxin Peptide PIITA
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti, LLP
; STREET: 1201 New York Avenue, Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005-3917
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/599,556
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Saxe, Stephen A.

REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 24260-107674-03
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4848
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: *Conus purpurascens*
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Amino acid 1 is pyroglutamate or glutamine."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 8
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Amino acid 8 is 4-transhydroxyproline or proline."
FEATURE:
NAME/KEY: Disulfide-bond
LOCATION: 4..16
FEATURE:
NAME/KEY: Disulfide-bond
LOCATION: 5..21
FEATURE:
NAME/KEY: Disulfide-bond
LOCATION: 11..22
FEATURE:
NAME/KEY: Modified-site
LOCATION: 18
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Amino acid 18 is 4-transhydroxyproline or proline."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 22
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "The carboxy terminus may be amidated."
08-599-556-1
very Match 40.1%; Score 48.5; DB 1; Length 22;
est Local Similarity 45.0%; Pred. No. 12;
atches 9; Conservative 2; Mismatches 6; Indels 3; Gaps 2;
3 CGN-GGCSKXCRDHARCC 20
||| : : :
4 CCGFKXCSRQCKXH-RCC 22

rch completed: November 17, 2003, 16:19:24
time : 5.89474 secs

LOCATION: (1)..(20)
OTHER INFORMATION: Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Trp or
OTHER INFORMATION: bromo-Trp
09-910-009A-211

Query Match 97.5%; Score 118; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 7.4e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2 NCCNGCGSSKXCRDHARCC 20
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2 NCCNGCGSSKXCRDHARCC 20

ULT 2
09-910-009A-432
Sequence 432, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Olivera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Cruz, Lourdes J.
APPLICANT: Shon, Ki-Joon
APPLICANT: Jacobsen, Richard
APPLICANT: Jones, Robert M.
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Wagstaff, John D.
TITLE OF INVENTION: Mu-Conopeptides
FILE REFERENCE: 2314-242

CURRENT APPLICATION NUMBER: US/09/910,009A
CURRENT FILING DATE: 2001-07-23
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
NUMBER OF SEQ ID NOS: 520
SOFTWARE: PatentIn version 3.0
SEQ ID NO 432
LENGTH: 20
TYPE: PRT
ORGANISM: Conus striatus
09-910-009A-432

Query Match 96.7%; Score 117; DB 11; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.8e-08;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2 NCCNGCGSSKXCRDHARCC 20
|||||
2 NCCNGCGSSKXCRDHARCC 20

ULT 3
09-910-009A-210
Sequence 210, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Olivera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Cruz, Lourdes J.

APPLICANT: Shon, Ki-Joon
APPLICANT: Jacobsen, Richard
APPLICANT: Jones, Robert M.
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Wagstaff, John D.
TITLE OF INVENTION: Mu-Conopeptides
FILE REFERENCE: 2314-242
CURRENT APPLICATION NUMBER: US/09/910,009A
CURRENT FILING DATE: 2001-07-23
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
NUMBER OF SEQ ID NOS: 520
SOFTWARE: PatentIn version 3.0
SEQ ID NO 210
LENGTH: 75
TYPE: PRT
ORGANISM: Conus striatus
US-09-910-009A-210

Query Match 96.7%; Score 117; DB 11; Length 75;
Best Local Similarity 94.7%; Pred. No. 2.9e-07;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 NCCNGCGSSKXCRDHARCC 20
|||||
Db 55 NCCNGCGSSKXCRDHARCC 73

RESULT 4
US-09-910-009A-301
Sequence 301, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Olivera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Cruz, Lourdes J.
APPLICANT: Shon, Ki-Joon
APPLICANT: Jacobsen, Richard
APPLICANT: Jones, Robert M.
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Wagstaff, John D.
TITLE OF INVENTION: Mu-Conopeptides
FILE REFERENCE: 2314-242
CURRENT APPLICATION NUMBER: US/09/910,009A
CURRENT FILING DATE: 2001-07-23
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
NUMBER OF SEQ ID NOS: 520
SOFTWARE: PatentIn version 3.0
SEQ ID NO 301
LENGTH: 22
TYPE: PRT
ORGANISM: Conus stercusmuscarum
FEATURE:
NAME/KEY: PEPTIDE

APPLICANT: Cognetix, Inc.
 APPLICANT: Olivera, Baldomero M.
 APPLICANT: McIntosh, J. Michael
 APPLICANT: Garrett, James E.
 APPLICANT: Watkins, Maren
 APPLICANT: Cruz, Lourdes J.

```

; SEQ ID NO: 370
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; LENGTH: 22
; TYPE: PRT
; ORGANISM: Conus consors
; FEATURE:
; NAME/KEY: PEPTIDE

```

LOCATION: (1)..(22)
OTHER INFORMATION: Xaa at residue 7 is Pro or Hyp; Xaa at residue 14 is Trp or brom
OTHER INFORMATION: -Trp
09-910-009A-376

Query Match 60.3%; Score 73; DB 11; Length 22;
Best Local Similarity 60.0%; Pred. No. 0.018;
Matches 12; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

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3 CCN--GGCSSKXCRDHARCC 20
||: ||: |||||: ||
3 CCDVYNACSGRXCRDHAQCC 22

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SULT 8
-09-910-009A-474
Sequence 474, Application US/09910009A
Publication No. US2003050234A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation

APPLICANT: COGNATEX, INC.
 APPLICANT: Olivera, Baldomero M.
 APPLICANT: McIntosh, J. Michael
 APPLICANT: Garrett, James E.

AFFILIANT: Watkins, Maeh
APPLICANT: Cruz, Lourdes J.
APPLICANT: Shon, Ki-Joon
APPLICANT: Jacobsen, Richard

APPLICANT: CONES, ROBERT M.
 APPLICANT: Cartier, G. Edward
 APPLICANT: Shen, Greg S.
 APPLICANT: Wagstaff, John D.
 TITLE OF INVENTION: Mu-Conopeptides
 FILE REFERENCE: 2314-242
 CURRENT APPLICATION NUMBER: US/09/910 009A

PRIOR APPLICATION NUMBER: US 60/219,619
CURRENT FILING DATE: 2001-07-23
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157

PRIOR FILING DATE: 2000-11-03
 PRIOR APPLICATION NUMBER: US 60/266
 PRIOR FILING DATE: 2001-01-29

PRIOR FILING DATE: 2001-03-21
 NUMBER OF SEQ ID NOS: 520
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 474
 LENGTH: 22
 TYPE: PRT

-09-910-009A-474

Query Match	59.5%	Score 72;	DB 11;	Length 22;
Best Local Similarity	55.0%;	pred No	0.024;	

Matches 11; Conservative 3;
3 CCN--GGCSSKXCRDHARCC 20

3 CCDVPNACSGRWCRDHAQCC 22

GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.

APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren

LOCATION: (1)..(26)
OTHER INFORMATION: Xaa at residue 18 is Trp or bromo-Trp
09-910-009A-42

Query Match 58.7%; Score 71; DB 11; Length 26;
Best Local Similarity 60.9%; Pred. No. 0.037;
atches 14; Conservative 2; Mismatches 1; Indels 6; Gaps 2;

3 CCN-----GGCSSKXCRDHARCC 20
||| :|||:||||
5 CCNKGNGKRG-C-SRWCRDHSRCC 26

ULT 11
09-910-009A-36
Sequence 36, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Olivera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garet, James E.
APPLICANT: Watkins, Maren
APPLICANT: Cruz, Lourdes J.
APPLICANT: Shon, Ki-Joon
APPLICANT: Jacobsen, Richard
APPLICANT: Jones, Robert M.
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Wagstaff, John D.

TITLE OF INVENTION: Mu-Conopeptides
FILE REFERENCE: 2314-242

CURRENT APPLICATION NUMBER: US/09/910,009A

PRIOR FILING DATE: 2001-07-23

PRIOR APPLICATION NUMBER: US 60/219,619

PRIOR FILING DATE: 2000-07-21

PRIOR APPLICATION NUMBER: US 60/245,157

PRIOR FILING DATE: 2000-11-03

PRIOR APPLICATION NUMBER: US 60/264,319

PRIOR FILING DATE: 2001-01-29

PRIOR APPLICATION NUMBER: US 60/277,270

PRIOR FILING DATE: 2001-03-21

NUMBER OF SEQ ID NOS: 520

SOFTWARE: PatentIn version 3.0

SEQ ID NO 36

LENGTH: 23

TYPE: PRT

ORGANISM: Conus bullatus

FEATURE:

NAME/KEY: PEPTIDE

LOCATION: (1)..(23)

OTHER INFORMATION: Xaa at residue 15 is Trp or bromo-Trp
09-910-009A-36

Query Match 58.3%; Score 70.5; DB 11; Length 23;
Best Local Similarity 65.0%; Pred. No. 0.038;
atches 13; Conservative 2; Mismatches 2; Indels 3; Gaps 2;

3 CCNG--GGSSKXCRDHARCC 20
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5 CCKGKRG-C-GRXCRDHSRCC 23

ULT 12
09-910-009A-495
Sequence 495, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Olivera, Baldomero M.
APPLICANT: McIntosh, J. Michael

APPLICANT: Garet, James E.
APPLICANT: Watkins, Maren
APPLICANT: Cruz, Lourdes J.
APPLICANT: Shon, Ki-Joon
APPLICANT: Jacobsen, Richard
APPLICANT: Jones, Robert M.
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Wagstaff, John D.
TITLE OF INVENTION: Mu-Conopeptides
FILE REFERENCE: 2314-242

CURRENT APPLICATION NUMBER: US/09/910,009A

PRIOR FILING DATE: 2001-07-23

PRIOR APPLICATION NUMBER: US 60/219,619

PRIOR FILING DATE: 2000-07-21

PRIOR APPLICATION NUMBER: US 60/245,157

PRIOR FILING DATE: 2000-11-03

PRIOR APPLICATION NUMBER: US 60/264,319

PRIOR FILING DATE: 2001-01-29

PRIOR APPLICATION NUMBER: US 60/277,270

PRIOR FILING DATE: 2001-03-21

NUMBER OF SEQ ID NOS: 520

SOFTWARE: PatentIn version 3.0

SEQ ID NO 495

LENGTH: 26

TYPE: PRT

ORGANISM: Conus bullatus

US-09-910-009A-495

Query Match 57.9%; Score 70; DB 11; Length 26;

Best Local Similarity 56.5%; Pred. No. 0.048;

Matches 13; Conservative 2; Mismatches 2; Indels 6; Gaps 2;

Qy 3 CCN-----GGCSSKXCRDHARCC 20

||| :|||:||||

Db 5 CCNKGNGKRG-C-SRWCRDHSRCC 26

RESULT 13

US-09-910-009A-41

Sequence 41, Application US/09910009A

Publication No. US20030050234A1

GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.

APPLICANT: McIntosh, J. Michael

APPLICANT: Garet, James E.

APPLICANT: Watkins, Maren

APPLICANT: Shon, Ki-Joon

APPLICANT: Jacobsen, Richard

APPLICANT: Jones, Robert M.

APPLICANT: Cartier, G. Edward

APPLICANT: Shen, Greg S.

APPLICANT: Wagstaff, John D.

TITLE OF INVENTION: Mu-Conopeptides

FILE REFERENCE: 2314-242

CURRENT APPLICATION NUMBER: US/09/910,009A

PRIOR FILING DATE: 2001-07-23

PRIOR APPLICATION NUMBER: US 60/219,619

PRIOR FILING DATE: 2000-07-21

PRIOR APPLICATION NUMBER: US 60/245,157

PRIOR FILING DATE: 2000-11-03

PRIOR APPLICATION NUMBER: US 60/264,319

PRIOR FILING DATE: 2001-01-29

PRIOR APPLICATION NUMBER: US 60/277,270

PRIOR FILING DATE: 2001-03-21

NUMBER OF SEQ ID NOS: 520

SOFTWARE: PatentIn version 3.0

SEQ ID NO 41

LENGTH: 80

TYPE: PRT

ORGANISM: Conus bullatus
9-910-009A-41

Query Match 57.4%; Score 70; DB 11; Length 80;

Best Local Similarity 56.5%; Pred. No. 0.12; 2; Indels 6; Gaps 2;

Matches 13; Conservative 2; Mismatches 2;

3 CCN-----GCCSSKXCRDHARCC 20

||||| : |||||

56 CCKGKRGCG-SRWCRDHSRCC 77

JUL 14

9-910-009A-493

quence 493, Application US/09910009A

publication No. US20030050234A1

GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.

APPLICANT: McIntosh, J. Michael

APPLICANT: Garrett, James E.

APPLICANT: Watkins, Maren

APPLICANT: Cruz, Lourdes J.

APPLICANT: Shon, Ki-Joon

APPLICANT: Jacobsen, Richard

APPLICANT: Jones, Robert M.

APPLICANT: Cartier, G. Edward

APPLICANT: Shen, Greg S.

APPLICANT: Wagstaff, John D.

TITLE OF INVENTION: Mu-Conopeptides

FILE REFERENCE: 2314-242

CURRENT APPLICATION NUMBER: US/09/910,009A

PRIOR FILING DATE: 2001-07-23

PRIOR APPLICATION NUMBER: US 60/219,619

PRIOR FILING DATE: 2000-07-21

PRIOR APPLICATION NUMBER: US 60/245,157

PRIOR FILING DATE: 2000-11-03

PRIOR APPLICATION NUMBER: US 60/264,319

PRIOR FILING DATE: 2001-01-29

PRIOR APPLICATION NUMBER: US 60/277,270

PRIOR FILING DATE: 2001-03-21

NUMBER OF SEQ ID NOS: 520

SOFTWARE: Patent in version 3.0

SEQ ID NO 493

LENGTH: 23

TYPE: PRT

ORGANISM: Conus bullatus

9-910-009A-493

Query Match 57.4%; Score 69.5; DB 11; Length 23;

Best Local Similarity 60.0%; Pred. No. 0.05;

Matches 12; Conservative 2; Mismatches 3; Indels 3; Gaps 2;

3 CCNG--GCCSSKXCRDHARCC 20

||||| : |||||

5 CCKGKRGCG-GRWCRDHSRCC 23

JUL 15

9-910-009A-35

quence 35, Application US/09910009A

publication No. US20030050234A1

GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.

APPLICANT: McIntosh, J. Michael

APPLICANT: Garrett, James E.

APPLICANT: Watkins, Maren

APPLICANT: Cruz, Lourdes J.

APPLICANT: Shon, Ki-Joon

APPLICANT: Jacobsen, Richard

APPLICANT: Jones, Robert M.
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Wagstaff, John D.
TITLE OF INVENTION: Mu-Conopeptides
FILE REFERENCE: 2314-242
CURRENT APPLICATION NUMBER: US/09/910,009A
PRIOR FILING DATE: 2001-07-23
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
NUMBER OF SEQ ID NOS: 520
SOFTWARE: Patent in version 3.0
SEQ ID NO 35
LENGTH: 77
TYPE: PRT
ORGANISM: Conus bullatus
US-09-910-009A-35

Query Match 57.4%; Score 69.5; DB 11; Length 77;
Best Local Similarity 60.0%; Pred. No. 0.14;
Matches 12; Conservative 2; Mismatches 3; Indels 3; Gaps 2;

QY 3 CCNG--GCCSSKXCRDHARCC 20

||||| : |||||

Db 56 CCKGKRGCG-GRWCRDHSRCC 74

Search completed: November 17, 2003, 16:26:50
Job time : 9.89474 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 17, 2003, 16:04:42 ; Search time 22.1053 Seconds
(without alignments)
143.555 Million cell updates/sec

Title: US-09-910-009a-210

Perfect score: 420

Sequence: 1 GSNWSKGLVLLTVCLLLFLP.....CCNGGSSKWCEDHARCGR 75

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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6: /cgn2_6/prodata/1/iaa/backfilese1.ppe:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	223.5	53.2	66	1	US-07-689-693B-11
2	191	45.5	52	1	Sequence 11, Appl
3	73	17.4	333	2	Sequence 24, Appl
4	73	17.4	333	3	Sequence 9, Appl
5	72.5	17.3	64	1	Sequence 9, Appl
6	72.5	17.3	64	1	Sequence 37, Appl
7	72.5	17.3	64	1	Sequence 37, Appl
8	72.5	17.3	64	1	Sequence 37, Appl
9	72.5	17.3	64	1	Sequence 39, Appl
10	72.5	17.3	64	1	Sequence 37, Appl
11	72.5	17.3	64	1	Sequence 37, Appl
12	72.5	17.3	64	1	Sequence 39, Appl
13	72.5	17.3	3025	6	Patent No. 523423
14	71.5	17.0	59	3	Sequence 31, Appl
15	71.5	17.0	63	3	Sequence 22, Appl
16	71.5	17.0	63	3	Sequence 22, Appl
17	70.5	16.8	63	3	Sequence 14, Appl
18	70.5	16.8	63	3	Sequence 14, Appl
19	70	16.7	27	1	Sequence 7, Appl
20	69.5	16.5	171	4	Sequence 31498
21	68.5	16.3	63	3	Sequence 16, Appl
22	68.5	16.3	63	3	Sequence 16, Appl
23	65.5	15.6	59	3	Sequence 33, Appl
24	65.5	15.6	59	3	Sequence 33, Appl
25	65.5	15.6	64	1	Sequence 13, Appl
26	65.5	15.6	206	1	Sequence 3, Appl
27	65.5	15.6	206	1	Sequence 3, Appl

28 65.5 15.6 206 1 US-08-456-430-3 Sequence 3, Appl

29 65.5 15.6 206 2 US-08-994-418-3 Sequence 3, Appl

30 65.5 15.6 206 5 PCT-US96-00432-3 Sequence 3, Appl

31 65 15.5 27 5 PCT-US96-05262-12 Sequence 12, Appl

32 64 15.2 477 4 US-09-328-352-6549 Sequence 6549, Ap

33 63.5 15.1 64 1 US-08-137-800-36 Sequence 36, Appl

34 63.5 15.1 64 1 US-08-137-800-45 Sequence 45, Appl

35 63.5 15.1 64 1 US-08-477-383-36 Sequence 36, Appl

36 63.5 15.1 64 1 US-08-477-383-45 Sequence 45, Appl

37 63.5 15.1 64 1 US-08-487-174-36 Sequence 36, Appl

38 63.5 15.1 64 1 US-08-487-174-45 Sequence 45, Appl

39 63.5 15.1 64 1 US-08-480-750-36 Sequence 36, Appl

40 63.5 15.1 64 1 US-08-480-750-45 Sequence 45, Appl

41 63.5 15.1 174 4 US-09-724-864-56 Sequence 56, Appl

42 63 15.0 60 3 US-09-488-799-49 Sequence 49, Appl

43 63 15.0 60 3 US-09-488-799-51 Sequence 51, Appl

44 63 15.0 1417 4 US-08-900-230-3 Sequence 3, Appl

45 62.5 14.9 59 3 US-09-488-799-29 Sequence 29, Appl

ALIGNMENTS

RESULT 1

US-07-689-693B-11

; Sequence 11, Application US/07689693B

; Patent No. 5231011

; GENERAL INFORMATION:

; APPLICANT: David Hillyard

; APPLICANT: Baldomero M. Olivera

; TITLE OF INVENTION: Segregated Folding Determinants

; TITLE OF INVENTION: for Small Disulfide-Rich Peptides

; NUMBER OF SEQUENCES: 25

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Thorpe, No. 5231011th & Western

; STREET: 3035 South 700 East, Suite 200

; CITY: Sandy

; STATE: Utah

; COUNTRY: USA

; ZIP: 84070

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage

; COMPUTER: Compaq LTE/286

; OPERATING SYSTEM: DOS 4.01

; SOFTWARE: Word Perfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/689,693B

; FILING DATE: 19910418

; CLASSIFICATION: 530

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: none

; FILING DATE: na

; ATTORNEY/AGENT INFORMATION:

; NAME: Western, M. Wayne

; REGISTRATION NUMBER: 22,788

; REFERENCE/DOCKET NUMBER: 9925

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (801) 566-6633

; TELEFAX: (801) 566-0750

; INFORMATION FOR SEQ ID NO: 11:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 68 amino acids

; TYPE: AMINO ACID

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FEATURE:

; NAME/KEY: Prepropeptide sequence for three loop

; NAME/KEY: conotoxin from Circler conotoxin from Conus

; NAME/KEY: textile

; IDENTIFICATION METHOD: Libraries were created

; IDENTIFICATION METHOD: using oligo-dt primed pUC13 vector

US-07-689-693B-11

```
Query Match 53.2%; Score 223.5; DB 1; Length 68;
Best Local Similarity 56.6%; Pred. No. 8.7e-18;
Matches 43; Conservative 9; Mismatches 11; Indels 13; Gaps 2;

QY 4 MSLGVLTVCLLPFLTPALPDGQADPAERMODDISDDEHPLFDKEQNC-----CN 58
DB 1 MSLGALLTICLLLSFSLTAVPLDGDQADPAQLQRIPTEDHPLFDENKRCPPVACN 60

QY 59 GCSCKNCRDHARCC 74
DB 61 MGCKP-----CGG 68

RESULT 2
US-07-689-693B-24
Sequence 24, Application US/07689693B
Patent No. 5231011
GENERAL INFORMATION:
APPLICANT: David Hilliard
APPLICANT: Balomero M. Olivera
TITLE OF INVENTION: Segregated Folding Determinants
TITLE OF INVENTION: for Small Disulfide-Rich Peptides
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Thorpe, No. 5231011th & Western
STREET: 9035 South 700 East, Suite 200
CITY: Sandy
STATE: Utah
COUNTRY: USA
ZIP: 84070
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage
COMPUTER: Compaq LTE/286
OPERATING SYSTEM: DOS 4.01
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/689,693B
FILING DATE: 19910418
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: none
FILING DATE: na
ATTORNEY/AGENT INFORMATION:
NAME: Western, M. Wayne
REGISTRATION NUMBER: 22,788
REFERENCE/DOCKET NUMBER: 9925
TELECOMMUNICATION INFORMATION:
TELEPHONE: (801) 566-6633
TELEFAX: (801) 566-0750
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 52 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Signal/Pro sequence for synthesis of
NAME/KEY: three loop conotoxin from Clitell conotoxin
IDENTIFICATION METHOD: Libraries were created
IDENTIFICATION METHOD: using oligo-dt primed pUC13 vector
US-07-689-693B-24

Query Match 45.5%; Score 191; DB 1; Length 52;
Best Local Similarity 72.9%; Pred. No. 2.5e-14;
Matches 35; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 4 MSLGVLTVCLLPFLTPALPDGQADPAERMODDISDDEHPLFD 51
DB 1 MSLGALLTICLLLSFSLTAVPLDGDQADPAQLQRIPTEDHPLFD 48

RESULT 3
US-08-700-442A-9

Sequence 9, Application US/08700442A
Patent No. 5861480
GENERAL INFORMATION:
APPLICANT: Sheila ATTENBOROUGH
APPLICANT: Willem Frans BROEKAERT
APPLICANT: Rupert William OSBORN
APPLICANT: John Anthony RAY
APPLICANT: Sarah Bronwen REES
APPLICANT: Ravindra Haribhai TAILOR
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS FROM ARALIA AND
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,442A
FILING DATE: 19-AUG-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB95/00509
FILING DATE: 09-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9404807.1
FILING DATE: 11-MAR-1994
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 333 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: FIGURE 10
US-08-700-442A-9

Query Match 17.4%; Score 73; DB 2; Length 333;
Best Local Similarity 28.0%; Pred. No. 1.5;
Matches 23; Conservative 13; Mismatches 26; Indels 20; Gaps 4;

QY 4 MSLGVLTVCLLPFLTPAL-----PLDGDQADPAERAE-----RMQDDISSDEHPLFD 51
DB 1 MVQKGWVGVLLIFLFCSTLTSADSKNPTKEEPFAKKPDEVSVKSGGPEVSDQY---- 56
QY 52 KRQNCNGGCGSSKWCRCRHRCC 73
DB 57 -RHRCCANGPGCKYCK---RMC 74

RESULT 4
US-08-831-028-9
Sequence 9, Application US/08831028
Patent No. 6150588
GENERAL INFORMATION:
APPLICANT: Sheila ATTENBOROUGH
APPLICANT: Willem Frans BROEKAERT
APPLICANT: Rupert William OSBORN
APPLICANT: John Anthony RAY
APPLICANT: Sarah Bronwen REES
APPLICANT: Ravindra Haribhai TAILOR
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS FROM ARALIA AND
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
```


MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-137-800-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 13; Gaps 4;

QY 9 VLLTVCLLLFPLTALPLDGDQADPAPARMOD---DISSDEHPLFDKQKNCNGCGSSKW 65
Db 5 MMFTVLLVLLVLTIVV---SFFSDRASDRDDEAKDERSDMHE-SDRKEICCNPCGPKY 60

QY 66 CRDHARCCGR 75
Db 61 -----SCGR 64

RESULT 8
US-08-477-383-39
Sequence 39, Application US/08477383
Patent No. 5589340
GENERAL INFORMATION:
APPLICANT: Olivera, Baldomero M.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hillyard, David R.
APPLICANT: Macintosh, J. Michael
APPLICANT: Santos, Ameurfino S.
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,383
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 19-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-477-383-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 13; Gaps 4;

QY 9 VLLTVCLLLFPLTALPLDGDQADPAPARMOD---DISSDEHPLFDKQKNCNGCGSSKW 65
Db 5 MMFTVLLVLLVLTIVV---SFFSDRASDRDDEAKDERSDMHE-SDRKEICCNPCGPKY 60

MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-137-800-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 13; Gaps 4;

QY 9 VLLTVCLLLFPLTALPLDGDQADPAPARMOD---DISSDEHPLFDKQKNCNGCGSSKW 65
Db 5 MMFTVLLVLLVLTIVV---SFFSDRASDRDDEAKDERSDMHE-SDRKEICCNPCGPKY 60

QY 66 CRDHARCCGR 75
Db 61 -----SCGR 64

RESULT 7
US-08-477-383-37
Sequence 37, Application US/08477383
Patent No. 5589340
GENERAL INFORMATION:
APPLICANT: Olivera, Baldomero M.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hillyard, David R.
APPLICANT: Macintosh, J. Michael
APPLICANT: Santos, Ameurfino S.
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,383
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 19-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673
TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-477-383-37

QY 66 CRDHARCCGR 75
 Db 61 -----SCGR 64

RESULT 9

US-08-487-174-37
 ; Sequence 37, Application US/08487174
 ; Patent No. 5595972
 ; GENERAL INFORMATION:
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Cruz, Lourdes J.
 ; APPLICANT: Hillyard, David R.
 ; APPLICANT: Macintosh, J. Michael
 ; APPLICANT: Santos, Ameurfino S.
 ; TITLE OF INVENTION: Conotoxin Peptides
 ; NUMBER OF SEQUENCES: 59
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
 ; STREET: 1201 New York Avenue, N.W., Suite 1000
 ; CITY: Washington
 ; STATE: DC
 ; COUNTRY: U.S.A.
 ; ZIP: 20005

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/487,174
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 514

PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/137,800
 ; FILING DATE: 19-OCT-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/084,848
 ; FILING DATE: 29-JUN-1993
 ; NAME: Innen, Jeffrey L.
 ; REGISTRATION NUMBER: 28,957
 ; REFERENCE/DOCKET NUMBER: 24260-107673
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-962-4810
 ; TELEFAX: 202-962-8300

INFORMATION FOR SEQ ID NO: 37:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 64 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHETICAL: NO
 ; ORIGINAL SOURCE:
 ; ORGANISM: Conus striatus

US-08-487-174-37

Query Match 17.3%; Score 72.5; DB 1; Length 64;
 Best Local Similarity 31.4%; Pred. No. 0.32;
 Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLLFPLTALPLDQPADRPAERMQD---DISSDHPLFDKQNCNGCCKSKW 65
 Db 5 MMFTVLLVLLVLTATV---SFPSPDRASGRDDEAKDERSDMHE-SDRKEICCNPCAGPKY 60

QY 66 CRDHARCCGR 75
 Db 61 -----SCGR 64

RESULT 10

US-08-487-174-39
 ; Sequence 39, Application US/08487174
 ; Patent No. 5595972
 ; GENERAL INFORMATION:
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Cruz, Lourdes J.
 ; APPLICANT: Hillyard, David R.
 ; APPLICANT: Macintosh, J. Michael
 ; APPLICANT: Santos, Ameurfino S.
 ; TITLE OF INVENTION: Conotoxin Peptides
 ; NUMBER OF SEQUENCES: 59
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
 ; STREET: 1201 New York Avenue, N.W., Suite 1000
 ; CITY: Washington
 ; STATE: DC
 ; COUNTRY: U.S.A.
 ; ZIP: 20005

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/487,174
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 514

PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/137,800
 ; FILING DATE: 19-OCT-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/084,848
 ; FILING DATE: 29-JUN-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Innen, Jeffrey L.
 ; REGISTRATION NUMBER: 28,957
 ; REFERENCE/DOCKET NUMBER: 24260-107673
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-962-4810
 ; TELEFAX: 202-962-8300

INFORMATION FOR SEQ ID NO: 39:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 64 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHETICAL: NO
 ; ORIGINAL SOURCE:
 ; ORGANISM: Conus striatus

US-08-487-174-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
 Best Local Similarity 31.4%; Pred. No. 0.32;
 Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLLFPLTALPLDQPADRPAERMQD---DISSDHPLFDKQNCNGCCKSKW 65
 Db 5 MMFTVLLVLLVLTATV---SFPSPDRASGRDDEAKDERSDMHE-SDRKEICCNPCAGPKY 60

QY 66 CRDHARCCGR 75
 Db 61 -----SCGR 64

RESULT 11
 US-08-480-750-37
 ; Sequence 37, Application US/08480750
 ; Patent No. 5633347
 ; GENERAL INFORMATION:
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Cruz, Lourdes J.
 ; APPLICANT: Hillyard, David R.

APPLICANT: Macintosh, J. Michael
APPLICANT: Santos, Ameurino S.
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti
STREET: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,750
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 19-OCT-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673

TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear

MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-480-750-37

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

Qy 9 VLLTVCLLLFPLTALPLDGPADPAPARMQD---DISSDEHPLFDKQNCNGCGSSKW 65
Db 5 MMFTVFLVLLVLTAVV---SFFSDRASDRDDEAKDERSDMHE-SDRKEICCNPCGPKY 60

Qy 66 CRDHARCCGR 75
Db 61 -----SCGR 64

RESULT 12
US-08-480-750-39
Sequence 39, Application US/08480750
Patent No. 563347

GENERAL INFORMATION:
APPLICANT: Olivera, Baldomero M.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hillyard, David R.
APPLICANT: Macintosh, J. Michael
APPLICANT: Santos, Ameurino S.
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Venable, Baetjer, Howard & Civiletti
STREET: 1201 New York Avenue, N.W., Suite 1000

CITY: Washington
STATE: DC
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,750
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 19-OCT-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673

TELEPHONE: 202-962-4810
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear

MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-480-750-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

Qy 9 VLLTVCLLLFPLTALPLDGPADPAPARMQD---DISSDEHPLFDKQNCNGCGSSKW 65
Db 5 MMFTVFLVLLVLTAVV---SFFSDRASDRDDEAKDERSDMHE-SDRKEICCNPCGPKY 60

Qy 66 CRDHARCCGR 75
Db 61 -----SCGR 64

RESULT 13
5223423-3
Patent No. 5223423

APPLICANT: FRANCHINI, GENOVEFFA, WONG-STAAAL, FLOSSIE;
GALLO, ROBERT
TITLE OF INVENTION: CHARACTERIZATION OF REPLICATION COMPETENT
HUMAN IMMUNODEFICIENCY TYPE 2 PROVIRAL CLONE HIV-2 SBL/ISY
NUMBER OF SEQUENCES: 4
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/331,212
FILING DATE: 03-31-1989
SEQ ID NO: 3
LENGTH: 3025
5223423-3

Query Match 17.3%; Score 72.5; DB 6; Length 3025;
Best Local Similarity 23.7%; Pred. No. 17;
Matches 22; Conservative 14; Mismatches 24; Indels 33; Gaps 4;

Qy 6 KIGVLLTVCLLLFPLTALPLDGPADPAPARMQD---DISSDEHPLFDKQNCNGCGSSKW 46
Db 1821 KLSILTACLLATISLIDNETPLKAPESLSGYNFSSRTSEQ---DVATQELANQGE 1877

QY 47 -----HPLFDKQKNCNGGSSKWC RDHARCC 73
Db 1878 ILSQYRPL-----ETCNKCKFCGCGCFHCQLC 1905

RESULT 14

US-09-488-799-31

; Sequence 31, Application US/09488799
; Patent No. 6268473
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Layer, Richard T.
; APPLICANT: Watkins, Maren
; APPLICANT: Hillyard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Schoenfeld, Robert
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Alpha Conotoxin Peptides
; FILE REFERENCE: Alphas 1
; CURRENT APPLICATION NUMBER: US/09/488,799
; CURRENT FILING DATE: 2000-01-21
; EARLIER APPLICATION NUMBER: 60/116,881
; EARLIER FILING DATE: 1999-01-22
; EARLIER APPLICATION NUMBER: 60/116,882
; EARLIER FILING DATE: 1999-01-22
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 31
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Conus striatus
US-09-488-799-31

Query Match 17.0%; Score 71.5; DB 3; Length 59;

Best Local Similarity 31.9%; Pred. No. 0.38;
Matches 22; Conservative 10; Mismatches 24; Indels 13; Gaps 4;

QY 10 LITVCLLLFFLTALPLDGDQADPAERMQD---DISDDEHPLFDKQKNCNGGSSKWC 66
Db 1 MFTVFLVVLATVV---SFPDSRADSGRDEAKDERSDMHE-SDRKEICCNACGPKY- 55

QY 67 RDHARCCGR 75

Db 56 -----SCGR 59

RESULT 15

US-09-061-026-22
; Sequence 22, Application US/09061026
; Patent No. 6077934
; GENERAL INFORMATION:
; APPLICANT: Jacobsen, Richard
; APPLICANT: Olivera, Baldomero M.
; TITLE OF INVENTION: Contryphan Peptides
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz, P.C.
; STREET: 755 Thirteenth Street N.W., Suite 701-E
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,026
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/068,737
; FILING DATE: 24-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 2314-133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-783-6040
; TELEFAX: 202-783-6031
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 63 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-061-026-22

Query Match 17.0%; Score 71.5; DB 3; Length 63;
Best Local Similarity 30.8%; Pred. No. 0.41;
Matches 24; Conservative 6; Mismatches 17; Indels 31; Gaps 4;

QY 4 MSKLGVL-LTVCLLLFFLTALPLDGDQADPAERMQDIDISSDDEHPLFDKQKNCNGGCS 62
Db 1 MGKUTILLVLAVALLSAQVWVGDDQADPDRNA-----VPRDNP-----GGAS 44
QY 63 SK-----WC 66
Db 45 GKFMNVLRRSGCPWEPWC 62

Search completed: November 17, 2003, 16:19:24
Job time : 23.1053 secs

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OM protein - protein search, using sw model

Run on: November 17, 2003, 16:17:08 ; Search time 37.1053 Seconds
(without alignments)
369.003 Million cell updates/sec

Title: US-09-910-009a-210

Perfect score: 420

Sequence: 1 GSNMKGVLTVCLLPL.....CNGGCKSKWCRDHRCGR 75

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 666188 segs, 182559486 residues

Total number of hits satisfying chosen parameters: 666188

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/FCR_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/FCR_US_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	420	100.0	75	11	US-09-910-009a-210
2	372	88.6	76	11	US-09-910-009a-300
3	335	79.8	74	11	US-09-910-009a-375
4	330	76.2	80	11	US-09-910-009a-41
5	306.5	73.0	76	11	US-09-910-009a-378
6	306	72.9	78	11	US-09-910-009a-38
7	304.5	72.5	75	11	US-09-910-009a-262
8	303.5	72.3	78	11	US-09-910-009a-14
9	303.5	72.3	78	11	US-09-910-009a-178
10	299.5	71.3	74	11	US-09-910-009a-234
11	299.5	71.3	77	11	US-09-910-009a-35
12	293.5	69.9	76	11	US-09-910-009a-265
13	292.5	69.6	75	11	US-09-910-009a-201
14	292.5	69.6	77	11	US-09-910-009a-32
15	277.5	66.1	74	11	US-09-910-009a-147

16	271.5	64.6	74	11	US-09-910-009a-144
17	271.5	64.6	75	11	US-09-910-009a-277
18	270.5	64.4	74	11	US-09-910-009a-74
19	269.5	64.2	77	11	US-09-910-009a-44
20	267.5	63.7	74	11	US-09-910-009a-56
21	267.5	63.7	74	11	US-09-910-009a-138
22	267	63.6	75	11	US-09-910-009a-59
23	267	63.6	75	11	US-09-910-009a-98
24	267	63.6	75	11	US-09-910-009a-135
25	266.5	63.5	73	11	US-09-910-009a-204
26	266	63.3	75	11	US-09-910-009a-11
27	266	63.3	76	11	US-09-910-009a-274
28	264	62.9	75	11	US-09-910-009a-101
29	263	62.6	72	11	US-09-910-009a-80
30	262.5	62.5	75	11	US-09-910-009a-297
31	262	62.4	68	11	US-09-910-009a-155
32	260	61.9	76	11	US-09-910-009a-152
33	260	61.9	76	11	US-09-910-009a-195
34	259	61.7	75	11	US-09-910-009a-132
35	258.5	61.5	70	11	US-09-910-009a-20
36	255.5	60.8	74	11	US-09-910-009a-47
37	255	60.7	71	11	US-09-910-009a-117
38	252	60.0	68	11	US-09-910-009a-181
39	252	60.0	75	11	US-09-910-009a-192
40	250.5	59.6	74	11	US-09-910-009a-8
41	250.5	59.6	74	11	US-09-910-009a-372
42	250	59.5	65	11	US-09-910-009a-114
43	250	59.5	74	11	US-09-910-009a-123
44	249.5	59.4	69	11	US-09-910-009a-158
45	249.5	59.4	74	11	US-09-910-009a-50

ALIGNMENTS

RESULT 1
US-09-910-009a-210
; Sequence 210, Application US/09910009A
; Publication No. US20030050234N1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 210
; LENGTH: 75
; TYPE: PRT
; ORGANISM: *Conus striatus*
US-09-910-009a-210

Sequence 144, App
Sequence 277, App
Sequence 74, Appl
Sequence 44, Appl
Sequence 56, Appl
Sequence 138, App
Sequence 59, Appl
Sequence 98, Appl
Sequence 135, App
Sequence 204, App
Sequence 11, Appl
Sequence 274, App
Sequence 101, App
Sequence 80, Appl
Sequence 297, App
Sequence 155, App
Sequence 152, App
Sequence 195, App
Sequence 132, App
Sequence 20, Appl
Sequence 47, Appl
Sequence 117, App
Sequence 181, App
Sequence 132, App
Sequence 8, Appl
Sequence 372, App
Sequence 114, App
Sequence 123, App
Sequence 158, App
Sequence 50, Appl

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Query Match      100.0%; Score 420; DB 11; Length 75;
Best Local Similarity 100.0%; Pred. No. 1.2e-41;
Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GMSKLGVLTVCLLFFLTALPLDGDQPADPAERMDDISSDEHPLFDKRCQCCNGG 60
Db 1 GMSKLGVLTVCLLFFLTALPLDGDQPADPAERMDDISSDEHPLFDKRCQCCNGG 60

QY 61 CSSKWCRRDHARCCGR 75
Db 61 CSSKWCRRDHARCCGR 75

RESULT 2
US-09-910-009A-300
; Sequence 300, Application US/09910009A
; Publication No. US2003050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; FILE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 300
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Conus stercusmuscarum
US-09-910-009A-300

Query Match      88.6%; Score 372; DB 11; Length 76;
Best Local Similarity 88.0%; Pred. No. 4.8e-36;
Matches 66; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

QY 3 GMSKLGVLTVCLLFFLTALPLDGDQPADPAERMDDISSDEHPLFDKRCQCCNGG-G 60
Db 1 GMSKLGVLTVCLLFFLTALPLDGDQPADPAERMDDISSDEHPLFDKRCQCCNGG 60

QY 61 CSSKWCRRDHARCCGR 75
Db 61 CSSKWCRRDHARCCGR 75

RESULT 3
US-09-910-009A-375
; Sequence 375, Application US/09910009A
; Publication No. US2003050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
```

```
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; FILE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 375
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Conus consors
US-09-910-009A-375

Query Match      79.8%; Score 335; DB 11; Length 74;
Best Local Similarity 79.7%; Pred. No. 9.7e-32;
Matches 59; Conservative 6; Mismatches 7; Indels 2; Gaps 1;

QY 3 GMSKLGVLTVCLLFFLTALPLDGDQPADPAERMDDISSDEHPLFDKRCQCCNGG 60
Db 1 GMSKLGVLTVCLLFFLTALPLDGDQPADPAERMDDISSDEHPLFDKRCQCCNGG 60

QY 61 CSSKWCRRDHARCCGR 74
Db 61 CSSKWCRRDHARCCGR 74

RESULT 4
US-09-910-009A-41
; Sequence 41, Application US/09910009A
; Publication No. US2003050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; FILE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; NUMBER OF SEQ ID NOS: 520
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/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 41
/ LENGTH: 80
/ TYPE: PRT
/ ORGANISM: Conus bullatus
US-09-910-009A-41

Query Match          76.2%; Score 320; DB 11; Length 80;
Best Local Similarity 75.0%; Pred. No. 6e-30;
Matches 60; Conservative 7; Mismatches 5; Indels 8; Gaps 3;

QY 3 MMSKLGVLTVCLLFPPLTALPLDGDQPADRPAERMQDDISSDEHPLFDKR--QNCN-- 58
      |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 1 MMSKLGVLTVCLLFPPLTALPLDGDQPADRPAERMQDDLSSEQHPLEKRVGRCCKNG 60
      |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:

QY 59 ---GCSSKWCGRDHARCCGR 75
      ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 61 NKGRC-SRWCRDHSRCCGR 79

RESULT 5
US-09-910-009A-378
/ Sequence 378, Application US/09910009A
/ Publication No. US20030050234A1
/ GENERAL INFORMATION:
/ APPLICANT: University of Utah Research Foundation
/ APPLICANT: Cognetix, Inc.
/ APPLICANT: Olivera, Baldomero M.
/ APPLICANT: McIntosh, J. Michael
/ APPLICANT: Watkins, James E.
/ APPLICANT: Shon, Ki-Joon
/ APPLICANT: Jones, Robert M.
/ APPLICANT: Cartier, G. Edward
/ APPLICANT: Shen, Greg S.
/ APPLICANT: Wagstaff, John D.
/ TITLE OF INVENTION: Mu-Conopeptides
/ FILE REFERENCE: 2314-242
/ CURRENT APPLICATION NUMBER: US/09/910,009A
/ PRIOR FILING DATE: 2001-07-23
/ PRIOR APPLICATION NUMBER: US 60/219,619
/ PRIOR FILING DATE: 2000-07-21
/ PRIOR APPLICATION NUMBER: US 60/245,157
/ PRIOR FILING DATE: 2000-11-03
/ PRIOR APPLICATION NUMBER: US 60/264,319
/ PRIOR FILING DATE: 2001-01-29
/ PRIOR APPLICATION NUMBER: US 60/277,270
/ PRIOR FILING DATE: 2001-03-21
/ NUMBER OF SEQ ID NOS: 520
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 38
/ LENGTH: 78
/ TYPE: PRT
/ ORGANISM: Conus bullatus
US-09-910-009A-38

Query Match          72.9%; Score 306; DB 11; Length 78;
Best Local Similarity 75.6%; Pred. No. 2.5e-28;
Matches 59; Conservative 8; Mismatches 5; Indels 6; Gaps 4;

QY 3 MMSKLGVLTVCLLFPPLTALPLDGDQPADRPAERMQDDISSDEHPLFDKR--QNCN-- 59
      |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 1 MMSKLGVLTVCLLFPPLTALPLDGDQPADRPAERMQDDISSQNPLEKRVGRCCKNG 60
      |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:

QY 60 ---GCSSKWCGRDHARCCGR 75
      ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 61 KRGCG-GRWCRDHSRCCGR 77

RESULT 7
US-09-910-009A-262
/ Sequence 262, Application US/09910009A
/ Publication No. US20030050234A1
/ GENERAL INFORMATION:
/ APPLICANT: University of Utah Research Foundation
/ APPLICANT: Cognetix, Inc.
/ APPLICANT: Olivera, Baldomero M.
/ APPLICANT: McIntosh, J. Michael
/ APPLICANT: Watkins, James E.
/ APPLICANT: Shon, Ki-Joon
/ APPLICANT: Jones, Robert M.
/ APPLICANT: Cartier, G. Edward
/ APPLICANT: Shen, Greg S.
/ APPLICANT: Wagstaff, John D.
/ TITLE OF INVENTION: Mu-Conopeptides
/ FILE REFERENCE: 2314-242
/ CURRENT APPLICATION NUMBER: US/09/910,009A
/ PRIOR FILING DATE: 2001-07-23
/ PRIOR APPLICATION NUMBER: US 60/219,619
/ PRIOR FILING DATE: 2000-07-21
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; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 262
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Conus tulipa
US-09-910-009a-262

Query Match 72.5%; Score 304.5; DB 11; Length 75;
Best Local Similarity 74.7%; Pred. No. 3.6e-28;
Matches 56; Conservative 9; Mismatches 7; Indels 3; Gaps 2;

QY 3 MMSKLGVLTVCLLPLTALPDGQPADPAPERMQDDISSDEHPLFDKRONCCNG--G 60
Db 1 MMSKLGVLTVCLLPLTALPDGQPADPAPERMQDDISSDEHPLFDKRONCCNG--G 60

QY 61 CSSKWCGRDHARCCGR 75
Db 61 CSSRECRPO-HCCGR 74

RESULT 8
US-09-910-009a-14
; Sequence 14, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 14
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Conus aurisiacus
US-09-910-009a-14

Query Match 72.3%; Score 303.5; DB 11; Length 78;
Best Local Similarity 71.8%; Pred. No. 4.9e-28;
Matches 56; Conservative 9; Mismatches 10; Indels 3; Gaps 1;

QY 1 GSNMKSGLVLTVCLLPLTALPDGQPADPAPERMQDDISSDEHPLFDKRONCC--- 57
Db 1 GSNMKSGLVLTVCLLPLTALPDGQPADPAPERMQDDISSDEHPLFDKRONCC--- 57

QY 58 NGGCSKWCGRDHARCCGR 75
Db 61 KGSCSGKACKNLKCCSGR 78

RESULT 9
US-09-910-009a-178
; Sequence 178, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 178
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Conus nobilis
US-09-910-009a-178

Query Match 72.3%; Score 303.5; DB 11; Length 78;
Best Local Similarity 71.8%; Pred. No. 4.9e-28;
Matches 56; Conservative 9; Mismatches 10; Indels 3; Gaps 1;

QY 1 GSNMKSGLVLTVCLLPLTALPDGQPADPAPERMQDDISSDEHPLFDKRONCC--- 57
Db 1 GSNMKSGLVLTVCLLPLTALPDGQPADPAPERMQDDISSDEHPLFDKRONCC--- 57

QY 58 NGGCSKWCGRDHARCCGR 75
Db 61 KGSCSGKACKNLKCCSGR 78

RESULT 10
US-09-910-009a-234
; Sequence 234, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
```

```
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 234
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Conus tulipa
US-09-910-009A-234

Query Match 71.3%; Score 299.5; DB 11; Length 74;
Best Local Similarity 74.3%; Pred. No. 1.4e-27;
Matches 55; Conservative 9; Mismatches 7; Indels 3; Gaps 2;

QY 4 MMSKLGVLTVCLLLFPLTALPDGQDPADRPAPRMQDDISSDEHPLFDKRCNCG--GC 61
Db 1 MMSKLGVLTVCLLLFPLTALPDGQDPADRPAPRMQDDISSDEHPLFDKRCNCG--GC 61

QY 62 SSKWCRDHARCCGR 75
Db 61 SSRECRPQ-HCCGR 73

RESULT 11
US-09-910-009A-35
; Sequence 35, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 35
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Conus bullatus
US-09-910-009A-35

Query Match 71.3%; Score 299.5; DB 11; Length 77;

; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 35
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Conus aurisiacus
US-09-910-009A-265

Query Match 69.9%; Score 293.5; DB 11; Length 76;
Best Local Similarity 71.1%; Pred. No. 7e-27;
Matches 54; Conservative 9; Mismatches 10; Indels 3; Gaps 1;

QY 3 MMSKLGVLTVCLLLFPLTALPDGQDPADRPAPRMQDDISSDEHPLFDKRCNCG--NG 59
Db 1 MMSKLGVLTVCLLLFPLTALPDGQDPADRPAPRMQDDISSDEHPLFDKRCNCG--NG 59

QY 60 GCSKWKCRDHARCCGR 75
Db 61 SCGKACKNLKCCSGR 76

RESULT 13
US-09-910-009A-201
; Sequence 201, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
```



```
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 201
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Conus stercusmuscarum
US-09-910-009A-201

Query Match      69.6%; Score 292.5; DB 11; Length 75;
Best Local Similarity 72.0%; Pred. No. 9.1e-27;
Matches 54; Conservative 9; Mismatches 9; Indels 3; Gaps 1;

Qy      4  MSKLGVLLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCC---NGG 60
Db      1  MSKLGVLLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCC---NGG 60

Qy      61  CSSKWCGRDHARCCGR 75
Db      61  CSGRACKNLKCCSGR 75

RESULT 14
US-09-910-009A-32
; Sequence 32, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 147
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Conus magus
US-09-910-009A-147

Query Match      66.1%; Score 277.5; DB 11; Length 74;
Best Local Similarity 71.6%; Pred. No. 5e-25;
Matches 53; Conservative 9; Mismatches 9; Indels 3; Gaps 2;

Qy      3  MMSKLGVLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCCN-GGC 61
Db      1  MMSKLGVLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCCN-GGC 60

Qy      62  SSKWCGRDH--ARCC 73
Db      61  CPVYFRDNFICGCC 74

Search completed: November 17, 2003, 16:26:50
Job time : 38.1053 secs
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; SEQ ID NO 32
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Conus bullatus
US-09-910-009A-32

Query Match      69.6%; Score 292.5; DB 11; Length 77;
Best Local Similarity 72.7%; Pred. No. 9.3e-27;
Matches 56; Conservative 7; Mismatches 9; Indels 5; Gaps 3;

Qy      3  MMSKLGVLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCCNG- 59
Db      1  MMSKLGVLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCCNG- 60

Qy      60  -GCSSKWCGRDHARCCGR 75
Db      61  REC-GRWCGRDHARCCGR 76

RESULT 15
US-09-910-009A-147
; Sequence 147, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 147
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Conus magus
US-09-910-009A-147

Query Match      66.1%; Score 277.5; DB 11; Length 74;
Best Local Similarity 71.6%; Pred. No. 5e-25;
Matches 53; Conservative 9; Mismatches 9; Indels 3; Gaps 2;

Qy      3  MMSKLGVLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCCN-GGC 61
Db      1  MMSKLGVLTVCLLFPALTALPDGQPADRPAERMQDDISSDEHPLFDKRONCCN-GGC 60

Qy      62  SSKWCGRDH--ARCC 73
Db      61  CPVYFRDNFICGCC 74

Search completed: November 17, 2003, 16:26:50
Job time : 38.1053 secs
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